

ABSTRACT

HIGH-RESOLUTION PROJECTION DISPLAY SYSTEM

An image display system uses a polarizing beam splitter to direct light from a lamp to multiple spatial light modulators. The spatial light modulators (“SLM”) each generate an image portion, which are stitched together on a display screen to obtain a high resolution image. In a particular embodiment, image portions from two conventional SLMs, each controlling about two million pixels, are stitched together to form an image having about four million pixels. In another embodiment, two lamps are used with four SLMs to produce a resultant image having about eight million pixels.